WITH THE FARMERS

By Prof. W. F. MASSEY



tors Disagree. where a farmer farms in a good rotation and grows eeds them he will

w.F. Massey. common opinion in that the growing of clover enriches the soil in nitrogen, and many believe that the growing of clover enriches the soil in nitrogen, and many believe that clover in a crop rotation will maintain the fertility of the soil.

Such opinions are largely erroneous. The mere growing of clover on normal land does not enrich it. Even the nitrogen is not increased unless the clover crop is returned to the soil either directly or in farm manure. Rotation with such crops as corn, oats and clover, depletes the soil of all increased in the control of the soil in the soil, and does not enrich it. This is immersing the seed with the soil is not increased unless the clover crop is returned to the soil in the germination of the seed. Water the soil always results utilized to the soil in the proper soil in the soil always results utilized to the temperature of 1321-2 the sease the nitrogen content if only the roots and stubble are left, because they contain no more nitrogen than the clover itself will take from soils of normal productive power. How doyn make this fit in with your ideas in regard to using no nitrogen? There is, if you read carefully, no difference is if you read carefully, no difference hetween what I have urged and what Dr. How the soil is the soil to the proposed to the propo W. F. Massey. common opinion that the growing of clover enriches peas had drawn on the mineral matters in the soil till they had become entirely insufficient to grow peas. Legumes draw very heavily on the phosphates and lime in the soil, and if the land is not supplied with these, and the crop is removed from the land, and no manure from its feeding returned, even the nitrogen will be exhausted. Then go back to the Illinois circular, No. 165, and you will find the following by Dr. Hopkins: "Long-continued investigations clearly establish the fact that by growing and plowing under leguminous crops, either directly or in the manure, he could have (a farmer to whose work he referred) secured plenty of nitrogen from the air, and have liberated, not only abundant potassium from the inexhaustible supply contained in his soil, but also phosphorus as needed, from the fine-ground natural rock phosphate plowed under in connection with the decaying organic manures."

This is just what I have been insisting upon for many years, and what has been adopted as the regular practice by hundreds of the best wheat growers in Maryland, who have immerse the seed for twelve hours. Have another vessel of lime water minumerse the seed for twelve hours. Have another vessel of lime water minumerse the seed for twelve hours. Have another vessel of lime water made by slaking a pound of good lime in the gallons of water. Dip the seed in the lime water for a few minutes, and then immerse for the twelve hours. Have another vessel of lime water made by slaking a pound of good lime in the gallons of water. Dip the seed in the lime water for a few minutes, and then immerse for the welve hours. The formaldehyde solution is the most simple and easy of any. The formaldehyde solution is the most simple and easy of any. The formaldehyde solution is the most simple and easy of any. The formaldehyde solution is the most simple and easy of any. The formaldehyde solution is the most simple and easy of any. The formaldehyde solution is the most simple and easy of any. The formaldehyde solution is the most simple and ea

practice by hundreds of the best wheat growers in Maryland, who have im-mensely increased their wheat crops. and use no fertilizer, but acid phosphate, and that only on the wheat. No, my friend, there is no disagree-ment between doctors. Dr. Hopkins would not maintain the fertility of the

Hairy Vetch Seed. Those who are buying seed of the builty vetch should get samples and send them to the Department of Agriculture in Washington for examina-tion. There is so much worthless while 190 samples consisted of a mixture of hairy vetch, spring vetch and weed vetch. Circular No. 45, from the Department of Agriculture, gives the names of the dealers and the extent to which the seed is adulterated. This circular can be had on application free from the Secretary of Agriculture in Washington, D. C. The true hairy vetch seed is worth \$4 to \$6 a bushed, and the other vetches used for adulteration can be bought for \$2 a bushed. While the hairy vetch is hardy all over the country, the varieties used are most of them not hardy or valuable except in the Pacific Coast. You can detect these adulterants by crushing the seed. The seed of the hairy vetch, when it is crushed, is bright yellow, while the seed of the other species is either fawn, salmon or reddish orange in color, and if any or these colors show in crushed seed, it shows the adulteration. Buy the seed only from a seedsman of reputation who will guarantee it to be pure hairy yetch.

to sow wheat and crimson clover. Where I live it is now a very common practice to sow wheat and crimson clover for a hay crop, which is cut as soon as the clover blooms, and without regard to the condition of the wheat. The clover gets nitrogen from the air and increases the nitrogen in the soil in its decay or by the application of the manure made from feeding the hay. There is no need for depending on rye or wheat alone as a winter cover crop if you are desirous of do-ing the best for the land. Of course, the clover will not amount to any

Thursday, September 11, 1913. thing as forage if sown with wheat and the wheat allowed to mature as a grain crop, as it will be dead by tors Disagree.

"You claim that the time the wheat is cut. But even in that case it would greatly help the soil. Peas in summer and crimson clover in winter are the best means for the Southern farmer to use for the improvement of his land and the feeding of stock.

Preventing Smut in Onts.

never need to buy nitrogen, in Circular 167, from the illinois Station, I and the following, by Dr. Hopkins:

"There is a rather common opinion of clover enriches and many believe and many believe to see if they would kill it, and I found that they did. What chused it? Was it the alkali in them? They were very strong with something like were very strong with something like to see did the price receded slightly under fresh efforts at depression, than the market grew exceedingly dull.

being more quickly available, Copenhagen Cabbage; Celery. Frederick County: "I am very much interested in knowing where I can ge phate, and that only on the wheat. In that section, a fertilizer dealer and manufacturer in Baltimore said that more than 80 per cent of the fertilizers sent there from Baltimore, not only contain no nitrogen, but a large part nothing but acid phosphate. And yet, since the abandonment of the use or complete fertilizers, the wheat crop and the corn crop of these farmers have greatly increased in amount. No, my friend, there is no disagreement between decrease in the corn of the corn ment between doctors. Dr. Hopkins in this country. You can sow the seed the middle of September, and set them in open furrows running east and west, would not maintain the factly. setting them deep enough to cover the

"Can you give me the address of parties in New York or Philadelphia who buy boxwood shoots and flowers?"

To Panalia on a Speciment New Orleans, the United States Public Health officials refused admission to the animal.

"Why, this is not a foreign goat or country. It's an You will have to sell such things through the floral commission houses.
White to the Florists' Exchange, No.
8 Duane Street, New York, and they vetch seed on the market that it is hard to get pure hairy vetch. The Department of Agriculture reports that they examined 207 different samples of this seed, and that in seventeen samples they found no hairy vetch at a property, and ven should be properly. Duane Street, New York, and they begartment of Agriculture reports that they examined 207 different samples of this seed, and that in seventeen samples they found no hairy vetch at all, while 190 samples consisted of a mixture of hairy yetch spring yetch.

shows the additeration. Buy the seed only from a seedsman of reputation only from a seedsman of reputation who will guarantee it to be pure hairy vetch.

Wheat and Rye as Winter Cover Crops.

"Will you please give me your opinion as to which is best as a winter cover, and which has the most commercial value to land, wheat or rye, I find, by sowing side by side under the same conditions, that wheat will make twice as much grazing as rye but I cannot decide which is best for the improvement of the land? Sown merely for pasture and a winter cover, wheat is certainly better than rye, and the pasture is better feed. So far as the improvement of the land is concerned, in turning under either there will not be a great deal of difference, for they do not, like clover add any nitrogen to the soil. If you want they get from the soil is given and a wanter cover and forage too, sow wheat and crimson clover. Where all live it is now a very common practice to go wheat and crimson clover for a hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent as soon as the hay crop, which is cent take the Osage, and for a large green one, the Hackensack.

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Crop Report, Steel Statement and Union Pacific Rumor Make Strong Market.

BY BROADAN WALL. New York, September 10 .- A favor-

able interpretation of the government crop reports, a better Steel statement than expected, and confirmation of the story that Union Pacific directors con-

jumped a point and the preferred more than two. The excellent report of the Interboro-Metropolitan brought a renewal of speculative interests.

Reading was strong and closed at the top of the day; interesting develop-

ments are expected to unfold without any warning to the Street; a sharp advance would not be surprising in view of the cumulative buying that has been noticed for some weeks past. The short interest in this issue became enlarged in anticipation of the government suit. As a market factor, the news fell flat, and the shorts have nowhere to go but the open market to undo their bad judgment. Copper stocks were the one dull feature of an otherwise interesting

market; Amalgamated Copper moved within a half point, closing practically unchanged; the metal market both here and abroad continues to show strength, efforts being made to prevent a runaway market.
Foreign stock markets were by no means disposed to follow our lead;

London houses were heavy sellers, disposing of some 30,000 shares, mostly Union Pacific and Atchison. Commodity markets were reaction-ary. Money worked a little higher for time loans with a broader demand for

rediscounts from institutions out of All the leaders were strong to-day and speculative interests showed a ten dency to expand. Strength and activity may be expected to continue.

GETS THEIR GOAT

The buying in Colorado Fuel to-day

Customs Official Holds Up Shriners' Ceremonial From Panama.

would not maintain the fertility of the soil, and so say I. You must use the clover as manure or as feed, and return the manure, and I have always insisted that the feeding is the better farm economy, for we can recover in the droppings more than 80 per cent of the manurial value of the clover, and can certainly make a profit out of the feeding from the 20 per cent used up. The only, legume crop, as a rule, that I would use as manure direct, is the crimson clover crop for corn, and on that I would put all the manurial on that I would put all the manurial accumulations of the winter as fast as made.

Setting them deep enough to cover the stems.

Washington, September 10.—The case of an American-born goat, which went visiting to Panama now wants to re-enter its native country at New Orleans, clogged the wheels of the Federal government to-day. Secretary of the treasury McAdoo received a telegram from New Orleans, signed J. E. but do not commence the complete case of an American-born goat, which went visiting to Panama now wants to re-enter its native country at New Orleans, clogged the wheels of the Federal government to-day. Secretary of the treasury McAdoo received a telegram from New Orleans, signed J. E. Pearce, stating that the Osman Temple of Shriners, of St. Paul, took the goat, which he called a "ceremonial goat," to panama on a special trip, and that upon their return at New Orleans, the United States Public Health officials refused as made, and the state of the address of the Federal government to-day. Secretary of the treasury McAdoo received a telegram from New Orleans, signed J. E. Pearce, stating that the Osman Temple of Shriners, of St. Paul, took the goat, which he called a "ceremonial goat," to show the states of the Federal government to-day. Secretary of the treasury McAdoo received a telegram from New Orleans, signed J. E. Pearce, stating that the Osman Temple of Shriners of St. Paul, took the goat, which he called a "ceremonial particles to the states."

a goat without a country, it's an American goat. Admit him," ordered Secretary McAcoo. The secretary was informed, however, that the Secretary of Agriculture must be consulted to determine whether the goat had contracted any disease. The goat is now on the hands of Secretary Houston.

Cannon Still Separated From His Sweetheart, Whom He Desires to Marry.

[Special to The Times-Dispatch.] Philadelphia, September 10. lowing the receipt of orders from Washington this morning, Agent Albert Gordon, of the Department of Juswithdrew the white slavery charge against Francis Cannon, of Washington, who was arrested because he is alleged to have brought Louise Rhodes, a sixteen-year-old girl of Rawley Springs, here to marry her, and

ing Carl Leonard.
[Special to The Times-Dispatch,]
Bristol, Va., September 10.—William
Camper, twenty-four years old, to-day
was given two and a half years in the Virginia Penitentiary by a Bristol jury for maliciously shooting Carl Leonard, aged eighteen years. Camper fired upon Leonard during carnival week because Leenard had thrown confetti in the face of the girl Camper ac-companied. The bullet passed entirely through Leonard's body, and the surgeons deemed Leonard's recovery al most a miracle.

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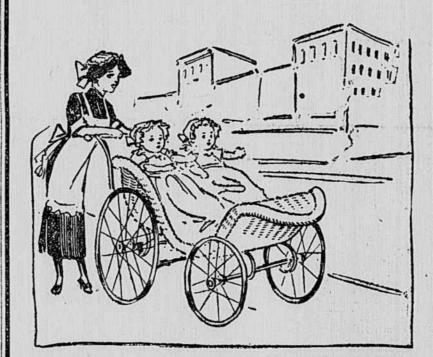
FOURTH. That's all there is to it. All you really have to do is to tell the book titles to sixty-seven pictures.

FIFTH. The ten starred titles in the Catalogue fit the ten circled pages in the Answer Book.

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able for the first thirty-five pictures.

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